

=====

Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=8; day=14; hr=13; min=25; sec=13; ms=332;]

=====

Reviewer Comments:

<210> 31

<211> 18

<212> DNA

<213> artificial sequence

<220>

<223> Probe

<400> 31

Cccttcccaa cgcgcca

18

Please change the upper-case "C" above (at location 1 in the nucleotide
line) to lower-case "c". Do not use upper-case letters to represent
nucleotides.

Application No: 10575753

Version No: 3.0

Input Set:**Output Set:****Started:** 2008-08-14 10:27:37.495**Finished:** 2008-08-14 10:27:39.845**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 350 ms**Total Warnings:** 27**Total Errors:** 0**No. of SeqIDs Defined:** 31**Actual SeqID Count:** 31

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)

Input Set:

Output Set:

Started: 2008-08-14 10:27:37.495
Finished: 2008-08-14 10:27:39.845
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 350 ms
Total Warnings: 27
Total Errors: 0
No. of SeqIDs Defined: 31
Actual SeqID Count: 31

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

W 112

Upper case found in data; Found at position(0) SeqId(31)

Sequence listing

<110> Widschwendter, Martin

<120> Prognostic and diagnostic markers for breast cell proliferative disorders

<130> 47675-183

<140> 10575753

<141> 2008-08-14

<150> PCT/EP2004/011577

<151> 2004-10-14

<150> DE 10348407.8

<151> 2004-10-17

<160> 31

<210> 1

<211> 3501

<212> DNA

<213> Homo Sapiens

<400> 1

```

gcgggggctgg cagggggcgct gccctggcac agctcggggc ctggcagcgg cgggtggggc      60
atcggctaag agctgccacc gccgcgggga ggggagcccg gccgcgggg accgcaggta      120
acggggccgcg gggcccccgcg ggccaggagg ggaacggggg cgggcgggcg agcagcgggc      180
agggggagctc agggctcggc tccgggctct gccgcgggat ttggggggccg cgaggaagag      240
ctgcgagccg agggcctggg gccggcgcac tcctcccgcc ctgtctgcag ttggaaaact      300
tttccccaag ttgggggcgg cggagttccg ggggagaagg ggccggggga gccgcggagg      360
gaggcgcccg gccgcgcgct gtagggccca ggccgaggcc gggacgcggg tggggcgag      420
gcccggggtca gggcgcgagc cggctgtgcg ccgtgccgcg ccggggcgct gccccctccc      480
tccccctggga gctgcgtggc tccccctcc ccccaacctg ctctctgcct cagcctctg      540
ccccgatata acgccccccc cgcgcggggc ccggccttcg cgctctgccc gccacggcag      600
ccgctgcctc cgtccccgcg gcggccgcgg cccgggcccc gaccgagggt tgacagcccc      660
cggccagggc ggcgccaggg cgggcaccgc gctccccctc tccgtatcac ttcccccaac      720
tggggcaact tctcccgagg cgggaggcgc tggttcctcg gctcccttc tccctacttg      780
ggtaaagttc tccgcctga atgacttttc ctgaagcggg cattttactt aaatcgggta      840
actgtctcca aaagggtcac tgcgcctgaa cagttttctt ctcggaagcc ccagcaccga      900
gccagggtgcc ctggggcgctg caggecgccc tggcctcccc tccaccggcg gccgctcacc      960
tctgtctct tctctgtgtc cgggcggggc ggctgggct cccactccag agggcagccg     1020
gtccttcgcc ggtgcccgag ccgcagggct gatgcccccg ctacgtgag ggaaggggaa     1080
gtggagggga gaagtgccg gctggggcca ggcggccagg gcgcgcacg gctctcacc     1140
ggccggtgtg tgtccccgca ggagagtgtg ctgggcagac gatgctggac acgatggagg     1200
cgcccgcca ctccaggcag ctgctgctgc agctcaaca ccagcgacc aagggttct     1260
tgtgcgacgt gatcatcgtg gtgcagaacg ccctcttcg cgcgcacaag aacgtgctgg     1320
cggccagcag cgcctacctc aagtccttg tgggtgatga caacctgtc aacctggacc     1380
atgacatggt gagcccgcc gtgttcgcc tgggtgtgga cttcatctac accggccgcc     1440
tggctgacgg cgcagaggcg gctgcggccg cggccgtggc cccgggggct gagecgagcc     1500
tgggcgccgt gctggccgcc gccagctacc tgagatccc cgacctcgtg gcgctgtgca     1560
agaaacgcct caagcgccac ggcaagtact gccacctgcg gggcggcggc ggcggcggcg     1620
gcggctacgc gccctatggt cggccggggc ggggcctgcg ggccgccacg ccggtcatcc     1680
aggcctgcta cccgtcccca gtcgggcctc cgcgcgcgcg tgccgcggag ccgcctcgg     1740

```

gcccagaggc	cgcggtcaac	acgcactgcg	ccgagctgta	cgcgtcggga	cccggcccgg	1800
ccgccgcaact	ctgtgcctcg	gagcgccgct	gtccccctct	ttgtggcctg	gacctgtcca	1860
agaagagccc	gccgggctcc	gcggcgccag	agcgcccgct	ggctgagcgc	gagctgcccc	1920
cgcgcccggga	cagccctccc	agcgccggcc	ccgccccta	caaggagccg	cctctcgccc	1980
tgcgctcgct	gccgcccgtg	cccttcacaga	agctggaggga	ggccgcaccg	ccttcggacc	2040
catttcgcgg	cggcagcggc	agcccgggac	ccgagccccc	cggccgcccc	gacgggccta	2100
gtctcctcta	tcgctggatg	aagcacgagc	cgggcctggg	tagctatggc	gacgagctgg	2160
gccgggagcg	cggtccccc	agcgagcgct	gcgaagagcg	tggtaggggac	gcggccgtct	2220
cgcccggggg	gccccgcctc	ggcctggcgc	cgccgcgcg	ctaccctggc	agcctggacg	2280
ggcccggcgc	ggggcgcgac	ggcgacgact	acaagagcag	cagcgaggag	accggtagca	2340
gcgaggaccc	cagcccgcct	ggcgccacc	tcgagggcta	cccatgcccg	cacctggcct	2400
atggcgagcc	cgagagcttc	ggtgacaacc	tgtacgtgtg	cattccgtgc	ggcaagggct	2460
tccccagctc	tgagcagctg	aacgcgcacg	tggaggctca	cgtggaggag	gaggaagcgc	2520
tgtacggcag	ggccgaggcg	gccgaagtgg	ccgctggggc	cgccggccta	gggccccctt	2580
ttggaggcgg	cggggacaag	gtcgccgggg	ctccgggtgg	cctgggagag	ctgctgcggc	2640
cctaccgctg	cgcgctcgtg	gacaagagct	acaaggaccc	ggccacgctg	cggcagcacg	2700
agaagacgca	ctggctgacc	cggccctacc	catgcaacct	ctgcgggaag	aagtccacgc	2760
agcgtgggac	catgacgcgc	cacatgcgca	gccacctggg	cctcaagccc	ttcgctgcg	2820
acgcgtgcgg	catgcggttc	acgcgccagt	accgcctcac	ggagcacatg	cgcattccact	2880
cgggcgagaa	gccctacgag	tgccagggtg	gcggcgccaa	gttcgcacag	caacgcaacc	2940
tcatcagcca	catgaagatg	cacgcctggg	ggggcgcggc	cggcgcggcc	ggggcgctgg	3000
cgggcttggg	ggggctcccc	ggcgtccccg	gccccgacgg	caagggaag	ctcgacttcc	3060
ccgagggcgt	ctttgctgtg	gctcgctcca	cggccgagca	gctgagcctg	aagcagcagg	3120
acaaggcggc	cgcgcccgag	ctgctggcgc	agaccacgca	cttctgcac	gaccccaagg	3180
tggcgctgga	gagcctctac	ccgctggcca	agttcacggc	cgagctgggc	ctcagccccg	3240
acaaggcggc	cgaggtgctg	agccaggggc	ctcacctggc	ggccggggcc	gacggccgga	3300
ccatcgaccg	tttctctccc	acctagagcg	ccctcgcca	gcccgtctctg	tcgctgctgc	3360
gcggccctgg	ccgcaccccc	agggagcggc	ggggcgcgcg	cgcaggggcc	actgtgcccg	3420
ggacaaccgc	agcgtcgcca	cagtggcggc	tccacctctc	ggcggcctca	cctggcctca	3480
ctgcttcgtg	ccttagctcg	g				3501

<210> 2

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 2

tttccatagt	gtaaagtgtg	tcccaccact	ctctggagta	atcctactta	aaaccgtttt	60
cagcacaaaa	ttcaaacatc	taaacatgat	cttgctggct	ttgcttttgt	ggctttaccc	120
tctttctccc	caaacctagc	tagtgtttgt	gctgcctgta	atgcccttct	ttctttgcag	180
gggtcgccac	tttaggtcct	ggtcctcctt	cagaaagtgt	ttctcttttc	tcccagcgg	240
ggatagggtc	tgtttatttt	gacaccatta	gctcacttac	acacattggg	cacaagtcta	300
ggctgcaccg	ttattgaaag	tttaccatct	gactctgagt	agcttgagga	tcctatcaaa	360
actcaggaga	tgctcagtaa	atggttgattg	aactatgact	gttctcaaca	tacaaacgca	420
agatcattta	ggaacacttg	tcaaaatggt	tttgccctt	gagattctat	tttgggaggt	480
aagcagtggg	ggtccaggac	tctgcatttt	gacagtcccc	tgatgtttgc	atgtagaagt	540
gcagggatta	ttacactgac	aaatctttac	catccctaag	ggggactttc	cttcccaggg	600
gctatctctg	gaagccctc	aaggataggg	gccgcatgct	gtttctctag	gtcagcaact	660
aaaccagaa	aacgtttatt	gagtgaatga	tgaaacgaca	ggtgaataga	tgaacgcaag	720
gtgtcgagtt	aactattctt	ctacacaagt	cctagcagct	cccattgctt	ccagccgcag	780
aatggcccc	tgggaaggcaa	gtcttcacgc	gagtggagtc	actcttaact	acatttccca	840
ggattccaag	ggagccgcgc	gctctgcgct	catcttcccta	ccagaaatcg	gcaagtcaact	900
gacctcgtc	cgcgcccgcc	cattccccgc	ctcctcctgt	cccgcagtcg	gcgtccagcg	960
gctctgcttg	ttcgtgtgtg	tgtcgttgca	ggccttattc	atgggctcac	cgctgaggtt	1020
cgacgggcgg	gtggtactgg	tcaccggcgc	gggggcagggt	gagcatgcga	aggttgaggg	1080
ccgcgccctt	tgtgaggcg	cagctggctg	ctcttttcgg	gccggcatac	gcgcgcagcc	1140

gcagctgagg	tcaccccgct	gaggtggtgg	ggaggggaat	ggttattctt	gaggcaccgc	1200
atctcttgag	gaggaaagag	ccggaaacac	ctggtctctc	aagcaggtag	agcccgcttc	1260
tccccagcac	cccggtgtgg	gcttcccaag	gtcctgcctg	agaggagagg	ccaggctggg	1320
ctgctgattg	caaaactggg	tgaaagtctt	ccctgaccct	tatctgtggg	catcgattgt	1380
tactcttcct	gcaattaaat	ctcttagatc	tttgccctag	cttttaaagg	actgaaaagc	1440
cgcgaggggc	gggggctgga	attcgccccc	tgaagcgcag	agatgtcagc	tcctgaaaag	1500
tcattcggtc	gttcagtggt	tgtttccctc	tgtcgtaaag	ttttaagttc	gtgagaggac	1560
cttcttttaa	gagggcgctc	gataagagcc	cttccccgtt	ggagtgtgta	tgcttagcaa	1620
gtcacaaatc	gttctcgaaa	tccactggag	tcttggcaga	ggttgtaagc	tcaaagcgcc	1680
acaggggtca	ggcgtatgat	ggagaaagaa	aatgggagta	ggatgggcac	atctgaggaa	1740
ctggagagca	gagaattccg	aagtggaccg	gccagtggga	aagttgcctg	tatttcagga	1800
gcggcacaaat	ggaaaattgt	tatgtgaaat	agccccattt	tttaaagtac	aaaaaattaa	1860
aacaaaccat	tcataccaac	atagatgctg	tgcagtgaga	ttttacatta	gtttctcacc	1920
agtgggtgac	ctctgtaacc	tccaagtgca	gggatcttga	cattatgcac	ctttgattct	1980
ccactggtag	taccttatac	ctggaaaggc	cctaatacat	gaattatttg	agttatatat	2040
taaacgttac	aaactggaat	tctgtcaatt	aattcctatg	tactttcata	tctgtattga	2100
taaagtggct	tcttatgctg	cctttcagaa	aatgctttca	gtgttgatga	atagccaagt	2160
atttttatacc	catagctgtc	tggttatctc	tgcattgggc	tgtatttggg	tgtagtcata	2220
ccttctaaat	gttttttagga	aaacattttg	tttacacttt	gcttttattg	taaataatgt	2280
atttttacaac	gcttgggtgt	ttaaatcttt	tttgacagct	cttggataat	tttcatgcag	2340
gaggtccagg	gattacattc	taagacgttt	ttgccatcgc	taaggagact	ttccttttca	2400
ggggctatat	ctgaaaatca	ttcaaggata	gggactgctt	cttttgacac	cattagcata	2460
cttacacatg	gtatgcagta	catttttacac	cagtactcag	t		2501

<210> 3

<211> 2470

<212> DNA

<213> Homo Sapiens

<400> 3

aaagatgatt	aaaagtttaa	ttgttcatct	gaagagttga	tttttttatt	cctgtaataa	60
agggtagctt	tagcagtctc	tgtctatctt	gcccatccgg	ctctttttgt	ggttgtgtaa	120
ggttataact	tctgtgtctc	agtaaacttg	tgcattgcca	tttttttctc	tgttactacc	180
ttttctctta	ttttgtttta	ttattttgat	gtaaaattac	ctgttaattt	tatttgaaat	240
gagaaatttt	aagggttcaca	ttattcaaat	tctgtcagat	ccctacctct	gtcatatggt	300
ttataatgtg	ctgggtatct	tcagacctgc	ttattaaaaa	gatgtaaaac	aaaataatga	360
tcactcctgt	ggattttttc	ttattttttg	agatgtctcc	tttggctgca	ttacttcttc	420
accccttgcc	cattgatcag	aggaggggtc	ttactatggg	gtgaacccta	tatcttactg	480
aagaggttat	gttacatgta	tattttcata	atataactta	catttacata	gtacttttat	540
tttttagcata	ccttttttta	ttaatcctaa	taatatcact	gtaagttatg	ttgaagcaga	600
ttgtaagtgt	tcattttacaa	attgtgaaat	gaattaaaaa	gaaagggcaa	agattaaatc	660
atgaccaggc	ctgaaattaa	cacacaagac	tcaatttttt	tcaaccaaaag	actttttag	720
gtgatccctg	cctgcaggac	tccccttcct	cctcagatgt	cattggattg	taccaggttt	780
actgtagatt	ctagccgttg	tagaactaac	tagatctaag	atgagtcacc	tgatttcctt	840
tggttagagt	ttccaattgc	tgaactccaa	tattgtcgtg	actagccagt	gttacaacct	900
gtctgcctta	ttttgtgtaa	tggatttcat	attacagagg	cattttttta	atgtcaagat	960
gttttaagt	tgtttaagt	caaactactt	aatacttttt	agctattaag	taattaagat	1020
aggcaggatt	ttatttgttc	caaaatgatt	tgacctaaac	taaaaagaga	atgtggatct	1080
cctgaatctt	acttgggttaa	tcttaatata	actcctagca	ttctataatt	cttctctaaag	1140
tcctcttacc	tggctatctt	ttgtatcttc	tttgtctctc	ctcttctttc	ccagtcataa	1200
taactgccag	actctgcttc	atctctcttt	gacagtctct	actcctaagg	tcatccattc	1260
tcttttaggt	tcttttggcc	tcagtttgag	cacagcagat	cccaagacca	catatgccat	1320
agcataggct	attatagtca	accttttgaa	taaatgtgat	tgaactttat	gttagtaatt	1380
cttattttacc	atcttcctat	caaaaaggct	taaagtcttc	atttaatgct	ctccttcatg	1440
tccattttgt	taaatgattg	ccttttaattg	acatcttaga	acttcagaac	tatttcacca	1500
tggaggatgt	gtaagattag	ccttttatca	aataaaaagt	gtgaaatgga	atatgtaatc	1560

tcattaatcc	attctggctc	taaaattctg	tgactatcag	ataaaattca	gaaataaaat	1620
agtattacta	atataaataa	atTTTTatca	taattatatt	tcctaagttt	tgccgtgaag	1680
aatgggtaaa	atatctttta	aaccttgaag	aaattattac	ttgatagaaa	gtttaatcca	1740
tctgtgagaa	ggcaaatgta	ttcagacaca	actaaagttc	tctcttctat	tttaatttca	1800
tttatcttga	actaagactc	cactgtttca	tcctcttaga	tgctgctact	tgaacaatat	1860
tgttttgaga	ccaaaaacta	gcatattaac	acaattcttc	ttaaacgtct	taagagtttt	1920
gtttccttta	cccccttctt	taaaaacaag	cagccactaa	atTTTTtagt	agtgaatttc	1980
aaaatccttt	ttaaccttat	aggccaag	gtagccaagg	atggctgcag	cttcatatga	2040
tcagttgtta	aagcaagttg	aggcactgaa	gatggagaa	tcaaactctc	gacaagagct	2100
agaagataat	tccaatcatc	ttacaaaact	ggaaactgag	gcatctaata	tgaaggatatc	2160
aagactgtga	cttttaattg	tagtttatcc	atTTTTatcc	agtattccct	cttgtaaact	2220
tgaggtaaga	cactttactt	aaaagtgtat	tttaaatata	gcaataatat	gtaaactctt	2280
tcttgcaaaa	gttagcattt	atatttttaa	ataagatata	ttgaattcat	tcagtgaatc	2340
atataaagaa	aataagtgtg	aaactccaat	ggctagttag	ttcttagttc	tttttaagat	2400
taaagagaag	agaccaaata	tagcatcact	gtactgaggc	aaggttttct	gtgtagttca	2460
tagaaactag						2470

<210> 4

<211> 7001

<212> DNA

<213> Homo Sapiens

<400> 4

aatgcaatgg	aaaaagagag	attgtaaagc	tagaaggctt	aggaattgcc	tcttgattag	60
gtgtggaagg	caagggaaaa	tcagccctcg	aagaagacag	tgagatttta	atctgggtgg	120
ctggagagac	agtgatgctg	ggcacagaca	cggggaagtt	gagaggaaca	ccatgtttga	180
gaatggtgac	tcataatttg	acaagcctgc	aatgcccgag	agaccgctgg	aaaagtgggg	240
ctggagacac	attcaacgga	ggagccagat	caatctttac	ccttcttcac	ctgagagagc	300
cagtaagtca	cggctggaac	gtgtgtgtcc	agcaggagag	ggtaggagg	gaagccaaga	360
gagctgggag	cccgagtga	gtttttgcca	aaggcagaag	aggaaagtcg	gcgtagcaca	420
gtatactttc	ccacccatgc	tcaccaagcc	cagggacaag	gctcaccaag	atgagtttgg	480
aagagaatgc	tggagagaaa	gtggttaaga	aaactgcctt	tactgaactt	cttgggctaa	540
ctttgattgt	aagtctctga	acaatcaaag	cctgtgagga	gacagctaac	cttcttattc	600
ttcctatgtc	aatagtgaac	aattgcagat	cccccttctt	ttccttctcc	tttccctgt	660
tcctctctcc	tcctccctg	aatactcttg	cttttttctg	ggactgggtct	agagcatggg	720
tggccattgt	tgacctacag	gaggcaccac	tgccaccaac	aaagggtaac	agtctttctt	780
ttcaatat	atTTtatatcc	agtatttatt	ttcaatactg	actatggaga	gagctctcct	840
gtgctcaaac	actgcaatac	tgggggtctt	tcaaagcaca	aaaacatata	tttgcatgat	900
ggcatcatta	acatttttat	ggctttctat	ttcttttttg	tactggtctc	aagagccact	960
cataaatctc	tcagtaactg	catagtgtcc	cagggccaga	gaccggccac	tcctggcatt	1020
gtgattagag	tcatttaata	tccaagggtg	tgactaatgt	ctggcaacaa	agcctccatt	1080
gggtgtcatg	tgtcctggga	ccctgagcgt	gggcactcta	ggagcacctc	agtattgcgt	1140
gttagtacta	tggccgagag	aatagttgag	aaagtgggtca	agaggtggat	ccatgtgaac	1200
gccactggga	aatgagagac	ctcgttccca	atcacgggtca	gtgcaactcg	aaagcctaaa	1260
atcagtttaa	aacaaaggta	tctaccttta	tcttatgttc	atatcctagg	cttttaataa	1320
tacgtatttt	tcacatgttt	acagaaagca	gtcaactgag	ctattcatgg	aaaggtttgt	1380
gggttttggt	aacgaagtgg	aggagtatta	catttcagct	ggaaacacat	ccctagaatg	1440
ccaaaacatt	tattccaaag	tctgggttcc	tgggtgcaatc	ggaggcatgg	caatgcctct	1500
gttcagagac	tgggggctag	ggccagtaag	gcatttgatc	cacatgtatc	ccagaaggct	1560
tttattgtta	aattatatcc	tttcggaaaa	accacccatg	tcctattttg	taaacttgat	1620
atccatacac	ttttgactgg	cattctat	tagccgtaag	actatgattc	acagcaagcc	1680
tgTTTTtctt	cttgcttggg	gtggcagcag	aaagcatagg	gtactttcca	gcctccaagg	1740
gtaggggcaa	aggggctggg	gtttctctct	ccagtagacg	ctttctctgg	ctgtgccaca	1800
ctgctccctg	tgagcagaca	gcaagtctcc	cctcactccc	cactgccatt	catccagcgc	1860
tgtgcagtag	cccagctgcg	tgtctgccgg	gaggggctgc	caagtgccct	gcctactggc	1920
tgttcccgga	atccctgcca	ttccacgcac	aaacacatcc	acacactctc	tctgcctagt	1980

tcacacactg	agccactcgc	acatgcgagc	acatttccttc	cttccttctc	actctctcgg	2040
cccttgactt	ctacaagccc	atggaacatt	tctggaaaga	cgttcttgat	ccagcagggt	2100
aggcttggtt	tgatttctct	ctctgtagct	ttagcatttt	gagaaagcaa	cttacctttc	2160
tggctagtgt	ctgtatccta	gcagggagat	gaggattgct	gttctccatg	ggggtatgtg	2220
tgtgtctcct	ttttctttca	ggacttgtag	gattctttgt	gccatttgca	tataatttgg	2280
caggttcaca	ttttttaaga	gccctatgaa	gtgctttttg	catgtgtttt	aaaaaggcat	2340
ttgaaaattg	aaagtgtgat	ttatggaaat	taaatcatct	gtaaaaaatt	gctttggaaa	2400
gtaatgattg	ctggccataa	agggaatat	ctgcgatgca	cctaattgtg	ttttaaccct	2460
ttatttgctg	acaatctata	gtcattaatg	ctaaactcga	ttttggcttc	agctacattt	2520
gcatattgtc	caacaatggg	ctatttttgt	aagaattaga	taaaatgtat	acttgatata	2580
aaatagtcaa	aatgtaact	cttagtaaca	gt aagcttgg	catttagata	gaccatgaac	2640
acttcgtcag	atactctgtt	gggtgttttg	gatagcaatt	aaaacaaagt	attgatagtt	2700
gtatcagagt	ctattaggct	gcagcaaagg	aagtttattc	aaaagtataa	actatccaag	2760
attatagacg	catgatatac	ttcacctatt	ttttgtctcc	ttaatatgta	tatatatata	2820
tatatatata	tatatacaca	tatatgtgtg	tgtgtatgtg	cgtgtgcatg	tttaactttt	2880
aattcagtta	aaaacttttt	tctatttgtt	tttcatctgg	atatttgatt	ctgcatatcc	2940
tagcccaagt	gaaccgagaa	gatcgagttg	taggactaaa	ggatagacat	gcagaaatgc	3000
attttaaaaa	tctgttagct	ggaccagacc	gacaatgtaa	cataattgcc	aaagctttgg	3060
ttcgtgacct	gaggttatgt	ttggtagtaa	aaggtcacat	tttatattca	gttttctgaa	3120
gttttggttg	cataaccaac	ctgtggaagg	catgaacacc	catgtgcgcc	ctaaccaaag	3180
gtttttctga	atcatccttc	acatgagaat	tcctaattggg	accaagtaca	gtactgtggt	3240
ccaacataaa	cacacaagtc	aggctgagag	aatctcagaa	ggttgtggaa	gggtctatct	3300
actttgggag	catttttgca	aggaagaaac	tgaggtcctg	gcaggttgca	ttctcctgat	3360
ggcaaaatgc	agctcttctc	atatgtatac	cctgaatctc	cgcccccttc	ccctcagatg	3420
ccccctgtca	gttccccccag	ctgctaaata	tagctgtctg	tggctggctg	cgtatgcaac	3480
cgcacacccc	attctatctg	ccctatctcg	gttacagtg	agtccctccc	agggtcatcc	3540
tatgtacaca	ctacgtattt	ctagccaacg	aggaggggga	atcaaacaga	aagagagaca	3600
aacagagata	tatcggagtc	tggcacgggg	cacataaggc	agcacattag	agaaagccgg	3660
cccctggatc	cgtcttttcgc	gtttattttta	agccagctct	tccttgggcc	accttttagca	3720
gatcctcgtg	cgcctccgcc	ccctggccgt	gaaactcagc	ctctatccag	cagcgacgac	3780
aagtaaagta	aagttcaggg	aagctgctct	ttgggatcgc	tccaaatcga	gttgtgcctg	3840
gagtgatgtt	taagccaatg	tcagggcaag	gcaacagtc	ctggccgtcc	tcagcacct	3900
ttgtaatgca	tatgagctcg	ggagaccagt	acttaaagtt	ggaggcccg	gagcccagga	3960
gctggcgagg	ggcgcttcgtc	ctgggactgc	acttgetccc	gtcggttcgc	ccggcttcac	4020
cggacccgca	ggctcccg	gcagggcg	ggccagagct	cgcgtgtcgg	cgggacatgc	4080
gctgcgtcgc	ctctaaccctc	gggctgtgct	ctttttccag	gtggcccgcc	ggtttctgag	4140
ccttctgccc	tgcggggaca	cggctctgcac	cctgcccg	gccacggacc	atgaccatga	4200
ccctccacac	caaagcatct	gggatggccc	tactgcatca	gatccaagg	aacgagctgg	4260
agccctgaa	cgtccgcag	ctcaagatcc	ccctggagcg	gccctgggc	gaggtgtacc	4320
tggacagcag	caagcccgcc	gtgtacaact	accccgagg	cgcgcctac	gagttcaacg	4380
cgcgggccgc	cgcacaacgc	caggtctacg	gtcagaccgg	cctcccctac	ggccccgggt	4440
ctgaggctgc	ggcgcttcggc	tccaacggcc	tgggggggtt	cccccaactc	aacagcgtgt	4500
ctccgagccc	gctgatgcta	ctgcacccgc	cgcgcagct	gtcgctttc	ctgcagcccc	4560
acggccagca	ggtgccctac	tacctggaga	acgagcccag	cggctacacg	gtgcgcgagg	4620
cggccccgcc	ggcattctac	aggtaaccgc	gccgcgcgcg	cccgctcg	tgccgcgcgc	4680
gcccggcagg	agggaggagg	ggaggagg	agaagggaga	gcctaggagg	ctgcgggagc	4740
cgcgggacgc	gcgacccgag	ggtgcgcgca	gggagcccg	ggcgcgcgcg	ccagcccg	4800
ggttctgctg	gcagcccg	ctgcgttcag	agtcaagttc	tctcgccggg	cagctgaaaa	4860
aaacgtactc	tccaccact	taccgtccgt	gcgagaggca	gacccgaaag	cccgggcttc	4920
ctaacaaaac	acacgttggg	aaaccagaca	aagcagcagt	tatttgtggg	ggaaaacacc	4980
tccaggcaaa	taaacacggg	gcgttttgag	tcacttggga	aggtctcgt	cttggcat	5040
aaagttgggg	gtgtttggag	ttagcagagc	tcagcagagt	tttatttata	cttttaatgt	5100
ttttgtttaa	tgtgctcccc	aaatttcctt	tcatctaga			